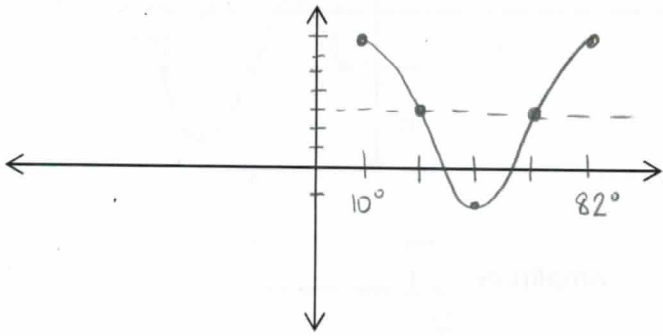


Determine the amplitude, period, horizontal, and vertical shifts. Then sketch the graph including at least one period.

1. $y = 3 + 4 \cos 5(\theta - 10^\circ)$

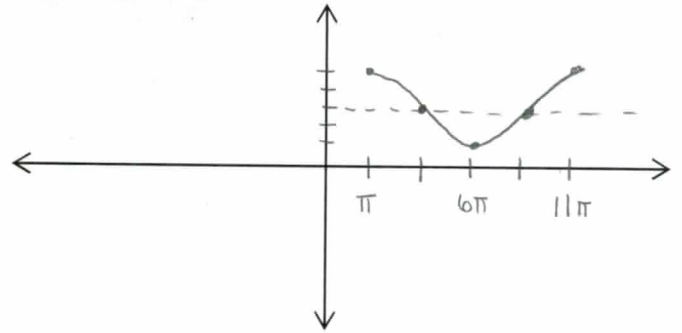


Amplitude: 4

Period: 72°

Shifts: ↑3 → 10°

2. $y = 3 + 2 \cos \frac{1}{5}(x - \pi)$

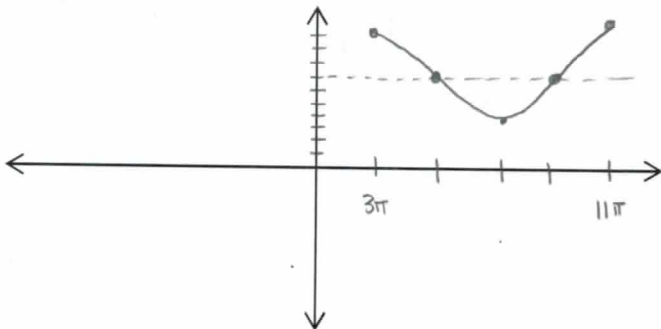


Amplitude: 2

Period: 10π

Shifts: ↑3 → π

3. $y = 7 + 3 \cos \frac{1}{4}(x - 3\pi)$

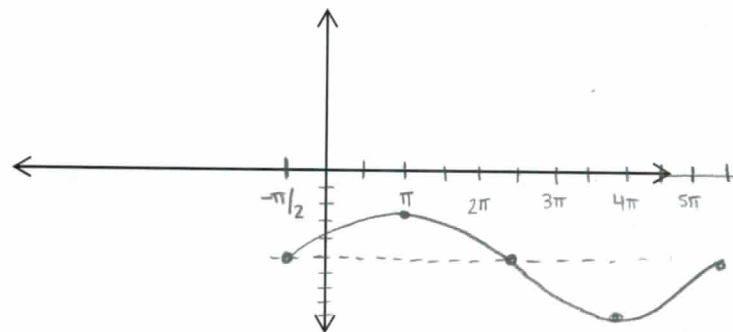


Amplitude: 3

Period: 8π

Shifts: ↑7 → 3π

4. $y = -5 + 4 \sin \frac{1}{3}\left(x + \frac{\pi}{2}\right)$

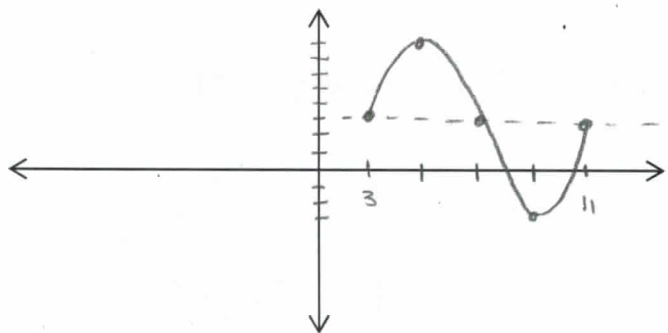


Amplitude: 4

Period: 6π

Shifts: ↓5 ← π/2

5. $y = 3 + 5 \sin \frac{\pi}{4}(x-3)$

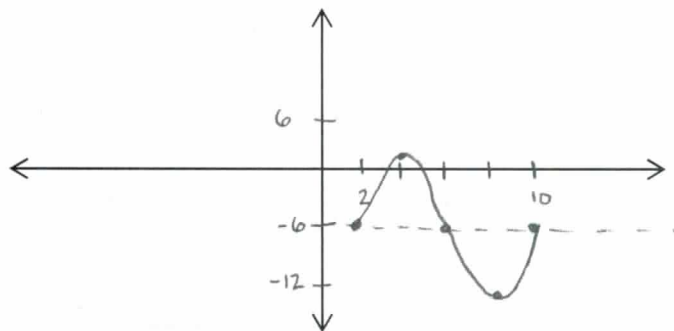


Amplitude: 5

Period: 8

Shifts: $\uparrow 3 \rightarrow 3$

6. $y = -6 + 7 \sin \frac{\pi}{4}(x-2)$



Amplitude: 7

Period: 8

Shifts: $\downarrow 6 \rightarrow 2$